STATE OF NEW HAMPSHIRE
Department of Environmental Services
Air Resources Division

Form ARD-2

Information Required for Permits for Fuel Burning Devices

I. EQUIPMENT INFORMATION – *Complete a separate form for each device.*

Device Description: _____

Date Construction Commenced: _____ **Device Start-Up Date:** _____

A. Boiler ☐ Not Applicable

Boiler Manufacturer _____ Boiler Model Number _____

Boiler Serial Number _____ Gross Heat Input Nameplate Rating (MMBtu/hr) _____

Burner Manufacturer _____ Burner Model Number _____ ☐ gal/hr ☐ mmcf/hr ☐ ton/hr

Burner Serial Number _____ Potential Fuel Flow Rate _____

1. Type of Burner:

a. Solid Fuel:

- ☐ Cyclone
- ☐ Pulverized (☐ wet ☐ dry)
- ☐ Spreader Stoker
- ☐ Underfeed Stoker
- ☐ Overfeed Stoker
- ☐ Hand-Fired
- ☐ Fly Ash Re-injection
- ☐ Other (specify): _____

b. Liquid Fuel:

- ☐ Pressure Gun
- ☐ Rotary Cup
- ☐ Steam Atomization
- ☐ Air Atomization
- ☐ Other (specify): _____

c. Gaseous Fuel:

- ☐ Natural Gas
- ☐ Propane
- ☐ Other (specify): _____

2. Combustion Type:

- ☐ Tangential Firing
- ☐ Opposite End Firing
- ☐ Limited Excess Firing
- ☐ Flue Gas Recirculation
- ☐ Staged Combustion
- ☐ Biased Firing
- ☐ One End Only Firing
- ☐ Other (specify): _____

B. Internal Combustion Engines/Combustion Turbines ☐ Not Applicable

Manufacturer _____ Model Number _____ ☐ gal/hr ☐ mmcf/hr

Serial Number _____ Fuel Flow Rate _____

Engine Output Rating _____ ☐ hp ☐ kW

Reason for Engine Use _____

Revision Date: October 30, 2003

Form ARD-2

C. Stack Information

Is unit equipped with multiple stacks? ☐ Yes ☐ No *(if yes, provide data for each stack)*

Identify other devices on this stack: _____

Is Section 123 of the Clean Air Act applicable? ☐ Yes ☐ No

Is stack monitoring used? ☐ Yes ☐ No

If yes, Describe: _____

Is stack capped or otherwise restricted? ☐ Yes ☐ No

If yes, Describe: _____

Stack exit orientation: ☐ Vertical ☐ Horizontal ☐ Downward

Stack ☐ Inside Diameter (ft) ☐ Exit Area (ft^2)

Discharge height above ground level (ft)

Exhaust Flow (acfm)

Exhaust Velocity (ft/sec)

Exhaust Temperature (°F)

II. OPERATIONAL INFORMATION

A. Fuel Usage Information

1. Fuel Supplier:

Supplier's Name

Street

Town/City State Zip Code

Telephone Number

2. Fuel Additives:

Manufacturer's Name

Street

Town/City State Zip Code

Telephone Number

Identification of Additive

Consumption Rate (gallons per 1000 gallons of fuel)

3. Fuel Information *(List each fuel utilized by this device)*:

Type	% Sulfur	% Ash	% Moisture (solid fuels only)	Heat Rating (specify units)	Potential Heat Input (MMBtu/hr)	Actual Annual Usage (specify units)

B. Hours of Operation

Hours per day: _____ Days per year: _____

Form ARD-2

III. POLLUTION CONTROL EQUIPMENT ☐ Not Applicable

A. Type of Equipment *Note: if process utilizes more than one control device, provide data for each device*

- ☐ baffled settling chamber
- ☐ long cone cyclone
- ☐ multiple cyclone (_____ inch diameter)
- ☐ electrostatic precipitator
- ☐ spray tower
- ☐ venturi scrubber
- ☐ afterburners (incineration)
- ☐ selective catalytic reduction
- ☐ reburn
- ☐ other (specify): _____
- ☐ wide bodied cyclone
- ☐ irrigated long cone cyclone
- ☐ carbon absorption
- ☐ irrigated electrostatic precipitator
- ☐ absorption tower
- ☐ baghouse
- ☐ packed tower/column
- ☐ selective non-catalytic reduction

B. Pollutant Input Information

Pollutant	Temperature (°F)	Actual (lb/hr)	Potential (lb/hr)	Actual (ton/yr)	Potential (ton/yr)

Method used to determine entering emissions:

☐ stack test ☐ vendor data ☐ emission factor ☐ material balance

☐ other
(specify): _____

C. Operating Data

1. Capture Efficiency: _____% Verified by: ☐ test ☐ calculations
2. Control Efficiency: _____% Verified by: ☐ test ☐ calculations
3. Normal Operating Conditions *(supply the following data as applicable)*

Total gas volume through unit (acfm)	Temperature (°F)	Percent Carbon Dioxide (CO_2)
Voltage	Spark Rate	Milliamps
Pressure Drop (inches of water)	Liquid Recycle Rate (gallons per minute)	

Form ARD-2

IV. DEVICE EMISSIONS DATA:

Pollutant	Temperature (°F)	Actual (lb/hr)	Potential (lb/hr)	Actual (ton/yr)	Potential (ton/yr)

Method used to determine exiting emissions:

☐ stack test ☐ vendor data ☐ emission factor ☐ material balance

☐ other (specify): _____